

**DEPARTMENT of ENVIRONMENTAL SERVICES**  
**Water Supply & Pollution Control Division - Biology Bureau**

**LAKE TROPHIC DATA**

**MORPHOMETRIC:**

Lake: HUCKINS POND	Lake Area (ha): 7.24
Town: EFFINGHAM	Maximum depth (m): 1.9
County: Carroll	Mean depth (m): 0.6
River Basin: Saco	Volume (m <sup>3</sup> ): 44500
Latitude: 43°43'20" N	Relative depth: 0.6
Longitude: 71°04'15" W	Shore configuration: 1.99
Elevation (ft): 440	Areal water load (m/yr): 201.8
Shore length (m): 1900	Flushing rate (yr <sup>-1</sup> ): 327.0
Watershed area (ha): 2501.4	P retention coeff.: 0.08
% watershed ponded: < 0.10	Lake type: natural w/dam

**BIOLOGICAL:**

**31 January 1992**

**23 August 1991**

DOM. PHYTOPLANKTON (% TOTAL)	#1	NO PLANKTON SAMPLE	SPARSE PHYTOPLANKTON;
	#2	(TOO SHALLOW)	MOSTLY FRAGMENTS OF
	#3		FILAMENTOUS GREEN ALGAE
PHYTOPLANKTON ABUNDANCE (cells/mL)			70
CHLOROPHYLL-A (µg/L)			1.61
DOM. ZOOPLANKTON (% TOTAL)	#1	NO PLANKTON SAMPLE	SPARSE - NO DOMINANTS
	#2	(TOO SHALLOW)	
	#3		
ROTIFERS/LITER			4
MICROCRUSTACEA/LITER			16
ZOOPLANKTON ABUNDANCE (#/L)			20
VASCULAR PLANT ABUNDANCE			Abundant
SECCHI DISK TRANSPARENCY (m)			1.5
BOTTOM DISSOLVED OXYGEN (mg/L)		13.6	4.8
BACTERIA (fecal col., #/100 ml) #1			30
	#2		30
	#3		

**SUMMER THERMAL STRATIFICATION:**

not stratified

Depth of thermocline (m): None  
Hypolimnion volume (m<sup>3</sup>) : None  
Anoxic volume (m<sup>3</sup>) : None

**CHEMICAL:**

Lake: HUCKINS POND

Town: EFFINGHAM

	31 January 1992		23 August 1991		
DEPTH (m)	0.5		1.0		
pH (units)	6.4		5.5		
A.N.C. (Alkalinity)	6.7		2.3		
NITRATE NITROGEN	< 0.02				
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS	0.010				
CONDUCTIVITY ( $\mu$ mhos/cm)	28.6		32.0		
APPARENT COLOR (cpu)	30		240		
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE	< 3				
SULFATE	3				
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 1991**

D.O. S.D. PLANT CHL TOTAL CLASS

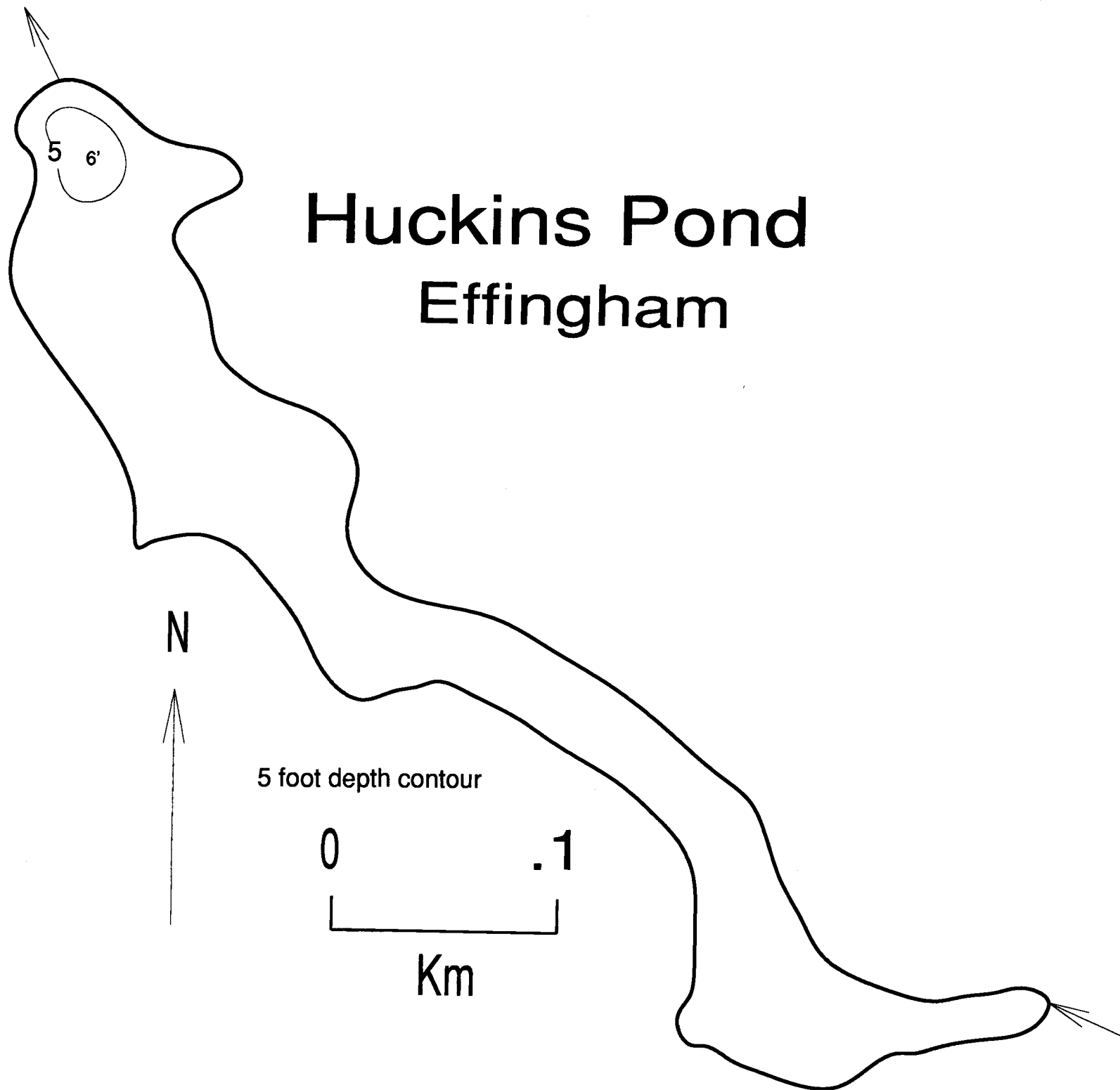
**	4	5	0	9	Meso.
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**COMMENTS:**

1. Also known as Hutchins Mill Pond or Wilkinson Brook Pond.
2. Nutrient and ion analyses were not completed for the summer survey.
3. Water was highly colored.
4. Four-wheel drive access road to the pond.
5. Wholewater plankton was sparse. *Oscillatoria* (20%) was the dominant genus while the dominant class was greens (45%).

# Huckins Pond

## Effingham



5 foot depth contour

0 .1  
Km

N

<b>FIELD DATA SHEET</b>
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**TOWN: EFFINGHAM**

**WEATHER: MOSTLY SUNNY & WARM**

[illegible]

**COMMENTS :**

**TIME: 1215**

**\*Dissolved oxygen values are in mg/L**

**Huckins Pond  
Effingham**

The map shows the irregular shoreline of Huckins Pond. Numerous sampling locations are marked with letters: 'a', 'f', 'S', 'Y', 'J', 'G', 'W', 'U', 'C', 'M', 'd', 'b', 'G', 'I', 'V'. A north arrow is located to the left of the pond, and a scale bar below it indicates a distance of 0.1 Km.

**Huckins Pond  
Effingham**

The map shows the irregular shoreline of Huckins Pond. Numerous sampling locations are marked with letters and numbers, including 'a', 'f', 'S', 'Y', 'J', 'G', 'W', 'U', 'C', 'M', 'd', 'b', 'G', 'I', 'V'. A north arrow is located to the left of the pond, and a scale bar indicates a distance of 0.1 Km.

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[illegible]